



ELECTRONIC TUBE REFERENCE

6BU5

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

High-voltage beam pentode designed primarily as a shunt voltage regulator in color-television high-voltage supplies, operating at plate potentials around 20 kV.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6BU5	BASE PINS	8
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	- / -
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0055 S
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM SCREEN VOLTAGE	100 V
MAXIMUM PLATE DISSIPATION	20 W
MAXIMUM SCREEN DISSIPATION	0.1 W
MAXIMUM CATHODE CURRENT	2.5 mA
Published maximum ratings, operating characteristics, rectifier data, and capacitances reviewed.	

6BU5 is a Pentode device. High-voltage beam pentode intended primarily as a shunt voltage regulator in color-television high-voltage supplies.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	20000 V	Published handbook rating
Maximum screen voltage	100 V	Published handbook rating
Plate voltage	20000 V	ClassA
Screen voltage	70 V	ClassA
Control-grid bias	2.4 V	ClassA
Plate current	1 mA	ClassA
Screen current	0.5 mA	ClassA
Maximum plate dissipation	20 W	HighVoltageShuntRegulator
Maximum screen dissipation	0.1 W	HighVoltageShuntRegulator
Maximum DC cathode current	2.5 mA	HighVoltageShuntRegulator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5500 μ S	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	150 mA	Published heater rating

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	3 pF	Published capacitance column
Output capacitance	0.9 pF	Published capacitance column
Grid-to-plate capacitance	0.024 pF	Published capacitance column



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 TUNG SOL

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	20000 V	Published operating/characteristic table
Screen Voltage	70 V	Published operating/characteristic table
Grid Voltage	2.4 V	Published operating/characteristic table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	1 mA	Published operating/characteristic table
Screen Current	0.4 mA	Published operating/characteristic table



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 1 of 4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Beam Power

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1-to-plate capacitance	0.024 pF	—
Input capacitance	3 pF	—
Output capacitance	0.9 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	20000 V	TVHighVoltageRegulator
Plate current	1 mA	TVHighVoltageRegulator